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wherein M+ is an alkali metal cation: 20

-(CHR21)<sub>e</sub>-(CH2)<sub>f</sub>-CO-OR22, or R20 is-

-(CHR<sup>21</sup>)<sub>e</sub>-(CH<sub>2</sub>)<sub>r</sub> OR<sup>22</sup> , or 25

-(CHR<sup>21</sup>)<sub>e</sub>-(CH<sub>2</sub>)<sub>f</sub>-NR<sup>21</sup>R<sup>22</sup>

W is O. NR28 or S:

1. A compound represented by formula II

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wherein at least one of R2',R3' or R5' is H, R20-(W),x-CO-, R20-(W),x-CS- or

 $R^{20}$ -(W),-PO(OH) - ; and wherein at least one of  $R^{2}$ ,  $R^{3}$  or  $R^{5}$  is not H: wherein R<sup>20</sup>is alkyl, H, alkanoyl, cycloalkyl, aryl, heterocyclic, NR<sup>21</sup>R<sup>22</sup>, alkenyl, or alkynyl;

or is alkyl, alkanoyl alkenyl or alkynyl substituted by halo, phenyl, cycloalkyl, NR<sup>21</sup>R<sup>22</sup>, hydroxy, alkoxy;

or is aryl substituted by phenyl halo, CN, NO<sub>2</sub>, OH, R<sup>28</sup>, O R<sup>28</sup>, CF<sub>3</sub>, SH  $SR^{21}$ , $SOR^{21}$ , $SO_2R^{21}$ ;  $NR^{21}R^{22}$   $CO_2H$ ,  $CO_2^-$ ,  $OR^{21}$ ,  $O^-M^+$  or  $S^-M^+$ ;

 $R^{21}$  is H, alkyl, alkanoyl,Y or aryl or is alkyl, alkanoyl or aryl suabstituted by halo, phenyl, CN,  $NO_2$  OH,  $CO_2$ H or alkoxy; and  $R^{22}$  is H, alkyl or aryl or is alkyl or aryl substituted by phenyl; halo, CN,  $NO_2$ , OH,  $CO_2$ H or alkoxy;

or  $R^{21}$  and  $R^{22}$  taken together with N and one of CHR<sup>21</sup> , NR<sup>21</sup>, O, S, SO or SO<sub>2</sub> form a five-, six- or seven- membered ring;

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R^{27} is H, OR^{21}, NR^{21}R^{22}, R^{20}-(W)_x-CO-, R^{20}-(W)_x-CS-, (HO)_2PO- or R^{20}-(W)_x-PO(OH) - or HO-SO_2-;
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R<sup>28</sup> is H, alkanoyl, aryl, alkyl or alkyl substituted by OH, halo or NR<sup>21</sup>R<sup>22</sup>;

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e= 0 to 6, f= 0 to 10, t = 0 to 100; s = 0 to 6000; r = 1 to 5000; and x = 0 or 1; or a pharmaceutically acceptable salt thereof.
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- A pharmaceutical composition of a compound of claim 1 or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable carrier.
- 3. A method of using a compound represented by formula II of claim 1 for treating a susceptible viral infection, wherein the method comprises a therapeutically effective amount of a ribavirin derivative of formula II of claim 1 or a pharmaceutically acceptable salt thereof.
- 4. A method of using a compound represented by formula II of claim 1 in association with interferon alpha for treating a chronic hepatitis C infection, wherein the method comprises a therapeutically effective amount of a ribavirin derivative of formula II of claim 1 or a pharmaceutically acceptable salt thereof and a therapeutically effective amount of an interferon alpha.
  - 5. The method of claim 4, wherein the interferon-alpha is selected from interferon alpha-2a, interferon alpha-2b, a consensus interferon, a purified interferon alpha product or a pegylated interferon-alpha-2a, pegylated interferon-alpha-2b, pegylated consensus interferon.

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- 6. The method of claim 4, wherein the interferon-alpha administered is a pegylated interferon alpha-2b and the amount of pegylated interferon-alpha-2b administered is from 0.5 to 2.0 micrograms/kilogram per week on a weekly, TIW, QOD or daily basis,
- 7. The method of claim 4, wherein the interferon-alpha administered is a pegylated interferon alpha-2a and the amount of pegylated interferon alpha-2a administered is from 20 to 250 micrograms per week on a weekly, TIW, QOD or daily basis.
  - 9 The compound of formula II of claim 1, wherein  $R^{2'} = R^{3'} = H$ .
  - 10 The compound of formula II of claim 1 wherein  $R^{2^{n}} = R^{5^{n}} = H$ ,
  - 11. The compound of formula II of claim 1 wherein  $R^{3'} = R^{5'} = H$ .
  - 12. The compound of formula II of claim 1, wherein  $R^{5^{\circ}}$  is one of

wherein X is independently OH, alkanoyl, amino, alkylamino, dialkylamino, alkanoylamino, hydroxyalkyl, alkoxy, alkyl, CN, NO2, halo, or alkyl substituted by OH, alkanoyl, amino, alkylamino, dialkylamino, alkanoylamino, hydroxyalkyl, alkoxy, CN, NO2, or halo.

The compound of formula II of claim 1, wherein R5' is 13

wherein X is OH, COCH3, OCOCH3, NO2, NH2, [CH3]2N, NHCOCH3, CH2OH, CH3, OCH3, F, Br or Cl.

The compound of claim 1, wherein R5' is 14

- A method of treating patients having chronic hepatitis C infection comprising 15. 5 administering a therapeutically effective amount of a ribavirin derivative of formula I and a therapeutically effective amount of interferon-alpha for a time period sufficient to eradicate detectable HCV-RNA at the end of said period of administering and to have no detectable HCV-RNA for at least 24 weeks after the end of said period of administrating, and wherein the ribavirin derivative is represented by formula I:
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wherein at least one of  $R^2$ ,  $R^3$  or  $R^5$  is H,  $R^6$ -(W)<sub>x</sub>-CO-,  $R^6$ -(W)<sub>x</sub>-CS-(HO)<sub>2</sub>PO- , $R^6$ -(W)<sub>x</sub>-PO(OH)- or HO-SO<sub>2</sub>- and wherein at least one of  $R^2$ ,  $R^3$  or  $R^5$  is not H; wherein  $R^6$  is H, alkyl, alkanoyl, cycloalkyl, heterocylic, aryl,  $NR^7 R^{7b}$ , alkenyl, or alkynyl; or is alkyl, alkanoyl, alkenyl or alkynyl substituted by halo, phenyl, cycloalkyl,  $NR^7 R^{7b}$ , hydroxy or alkoxy;

or R<sup>6</sup> is aryl substituted by phenyl, halo, CN, NO<sub>2</sub>, OH, R<sup>18</sup>, OR<sup>16</sup>, CF<sub>3</sub>, SH SR<sup>7a</sup>, SOR<sup>7a</sup>, SO<sub>2</sub>R<sup>7a</sup>; NR<sup>7a</sup>R<sup>7b</sup> CO<sub>2</sub>H, CO<sub>2</sub> · M<sup>\*-</sup>, O · M<sup>\*</sup> OR<sup>7a</sup> or S · M<sup>\*</sup>; wherein M\* is an alkali metal cation;

 $\begin{array}{lll} \text{or R}^6 \text{ is --(CHR}^{7a})_{e}\text{-}(CH_2)_{r}\text{-CO-OR}^{7b}\,, \\ \text{-(CHR}^{7a})_{e}\text{-}(CH_2)_{r} & \text{OR}^{7b} \ \ \text{, or } & \text{-(CHR}^{7a})_{e}\text{-(CH}_2)_{r}\text{-NR}^{7a}\text{R}^{7b} \end{array}$ 

W is O. NR18 or S:

 $R^{7a}$  is H, alkyl, alkanoyl, aryl or is alkyl, alkanoyl or aryl substituted by halo phenyl CN, NO $_2$ , OH, CO $_2$ H or alkoxy; and  $R^{7b}$  is H, alkyl or aryl or is alkyl or aryl substituted by halo, CN, NO $_2$ , CO $_2$ H, OH or alkoxy; or  $R^{7a}$  and  $R^{7b}$  taken together with N and one of CHR  $^{7a}$ , NR  $^{7a}$ , O, S, SO or SO $_2$  form a five-, six- or seven- membered ring;  $R^{17}$  is H, OR  $^{7a}$ , NR  $^{7a}$ , R  $^{8}$ -(W) $_x$ -CO-, R  $^{8}$ -(W) $_x$ -CS-, (HO) $_z$ -PO-,  $R^{8}$ -(W) $_x$ -PO(OH) - , or HO-SO  $_2$ -;

 $^{25}$   $\,$   $\,$  R  $^{18}$  is H, aryl, alkyl, or alkyl substituted by OH, halo , NR  $^{78}$  R  $^{7b}$  , or alkanoyl;

e = 0 to 6, f = 0 to 10, and x = 0 or 1; or a pharmaceutically acceptable salt thereof. 10

16. The method of claim 15 wherein R<sup>5</sup> is R<sup>5</sup>CO wherein R<sup>5</sup> is aryl substituted by phenyl, halo, CN, NO<sub>2</sub>, OH, R<sup>1+</sup>, OR<sup>1+</sup>, OR<sup>1+</sup>, OH OR<sup>7+</sup>, SOR<sup>7+</sup>, SO<sub>2</sub>R<sup>7+</sup>, NR<sup>7+</sup>R<sup>75</sup> CO<sub>2</sub>H, CO<sub>2</sub>· M<sup>1+</sup>, O· M<sup>+</sup> OR<sup>75</sup> or S· M<sup>+</sup> and wherein M<sup>+</sup> is an alkali metal cation.

17. The method of claim 15 wherein  $R^5$  is  $R^6$ CO wherein  $R^6$  is phenyl substituted by, halo, CN, NO<sub>2</sub>, OH,  $R^{16}$ ,  $CR^{16}$ ,  $CF_3$ , SH  $SR^{7a}$ ,  $SO_2R^{7a}$ ;  $NR^{7a}R^{7b}$   $CO_2H$ ,  $CO_2^-M^{*-}$ ,  $O^-M^*OR^{7a}$  or  $S^-M^*$ . and wherein  $M^*$  is an alkali metal cation.

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